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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/706,408	11/03/2000	Mitsuru Takeyasu	80A 3002	7889
7	590 10/30/2002			
Koda and Androlia 2029 Century Park East Suite 3850			EXAMINER .	
			WARD, JOHN A	
Los Angeles, CA 90067-3024			ART UNIT	PAPER NUMBER
			2875	
			DATE MAILED: 10/30/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	09/706,408	TAKEYASU ET AL.			
Office Action Summary	Examiner	Art Unit			
	John A. Ward	2875			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a report of the period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statut. - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	.136(a). In no event, however, may a reply be tin ply within the statutory minimum of thirty (30) day I will apply and will expire SIX (6) MONTHS from te, cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
1) Responsive to communication(s) filed on <u>27</u>	March 2002 .				
2a) ☐ This action is FINAL . 2b) ☑ T	his action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims					
4) Claim(s) 1-7 is/are pending in the application).				
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-7</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers					
9) The specification is objected to by the Examiner.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner.					
If approved, corrected drawings are required in reply to this Office action.					
12)☐ The oath or declaration is objected to by the Examiner.					
Priority under 35 U.S.C. §§ 119 and 120					
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a) ☐ All b) ☐ Some * c) ☐ None of:					
1. Certified copies of the priority documen	ts have been received.				
2. Certified copies of the priority documen	ts have been received in Application	on No			
Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).					
a) The translation of the foreign language provisional application has been received.					
15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.					
Attachment(s)	_				
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)					
S. Patent and Trademark Office					

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DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-3 is rejected under 35 U.S.C. 103(a) as being unpatentable over McDermott as applied to claim 1 above, and further in view of Ryan, Jr. et al (US 6,244,727).

Regarding claim 1, McDermott ('557) discloses a multi-source lighting device comprising of a plurality of light distributing LEDs S1-S6 mounted in a circular formation on a circuit board 9, figure 9 teaches how they are arrange radially on an horizontal circumference so that a wider divergence of each LED is horizontally oriented (column 8, lines 4-40).

Regarding claim 2, claim 2 of McDermott discloses a lens 32 provided with a diffusion part that diffuses light only in a horizontal direction.

McDermott regarding claims 3 discloses a lens 32, having a diffuses portion (claim 6), figure 1, 2, and 12, teaches how the LED lighting fixtures is comprise of a plurality of light distributing LEDs and are provided radially and on a horizontal circumference.

McDermott does not disclose a elliptically light distributing LEDs.

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It is desired to use a plastic film that is lightweight and can protect the elliptically light emitting diode from damage.

Ryan, Jr. et al disclose a lens located in a horizontal position being made of a film being that of polycarbonate or acrylic material in front of an elliptically light distributing light emitting diode 12 (figure 4), column 6, lines 1-10.

Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the lighting device of McDermott with the plastic film material of Ryan, Jr. et al in order to provide an optical lens that receives light rays directed in an undesired direction and redirects these light rays by refraction in a desired direction as taught by Ryan, Jr. et al (lines 52-54, column 3).

Claims 4-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over McDermott in view of Ryan, Jr. et al.

McDermott regarding claims 4-5 discloses all the limitations of the claims comprising of LEDs S1-S7, a lens 32, having a diffuses portion (claim 6), figure 1, 2, and 12, teaches how the LED lighting fixtures is comprise of a plurality of elliptically light distributing LEDs and are provided radially and on a horizontal circumference. Figure 12 show that the lighting fixture can be stacked for an increase of illumination.

McDermott does not disclose that a screw that runs through the bosses of the lighting fixture fastens the stack units or the lens being unit-type lens.

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It is desired to provide a means to attach a plurality of circuit boards together in a vertical array in order to provide an increased amount of light emitting from the lighting device, and a means to mount the circuit boards.

Regarding claim 6, Ryan, Jr. et al ('727) discloses an optic lens cell and illuminated signage having a cell array comprising of a plurality of elliptically distributing LEDs 12 (column 6, lines 1-10) mounted on a printed circuit board in a horizontal position adjacent to a unit-type lens 18 for illuminating each light emitting diode in a horizontal direction, and a screw 19 to hold the lens 18 in place to the printed circuit board.

Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the lighting device of McDermott with the mounting means of Ryan, Jr. et al in order to provide an optical lens that receives light rays directed in an undesired direction and redirects these light rays by refraction in a desired direction as taught by Ryan, Jr. et al (lines 52-54, column 3).

Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ryan, Jr. et al.

Regarding claim 7, Ryan, Jr. et al discloses the claimed invention except for the LED's having a divergence angle of 120-150 degrees. It would have been obvious to one of ordinary skill in the art the time the invention was made to provide the LED's having a horizontal divergence of an angle from 120-150 degrees, since it has been held that where the general conditions of a claim are disclosed in the prior art,

discovering the optimum or workable ranges involves only routin skill in the art. In re Aller, 105 USPQ 233.

Response to Arguments

Applicant's arguments filed March 27, 2002 have been fully considered but they are not persuasive. Regarding claim 6, Ryan, Jr. et al discloses in column 5, lines 21-31 that the mounting member is a pin, rod, or other mounting mechanism which would include a screw.

Applicant's arguments with respect to claims 1-5, and 7 have been considered but are most in view of the new ground(s) of rejection.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to John A. Ward whose telephone number is 703-305-5157. The examiner can normally be reached on Monday - Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sandra O'Shea can be reached on 703-305-4939. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-7722 for regular communications and 703-308-7724 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0596.

Sandra O'Shea
Supervisory Patent Examiner
Technology Center 2800

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JAW October 23, 2002